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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,087	03/16/2004	Ching-Yu Chang	2003-1435 / 24061.911	4048
.=	7590 06/26/200 D BOONE, LLP	,	EXAMINER	
901 MAIN STREET, SUITE 3100			EL ARINI, ZEINAB	
DALLAS, TX 75202			ART UNI <b>T</b>	PAPER NUMBER
			1746	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/802,087	CHANG ET AL.
Office Action Summary	Examiner	Art Unit
<u> </u>	Zeinab E. EL-Arini	1746
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		•
<ul> <li>1) ⊠ Responsive to communication(s) filed on 13 Ag</li> <li>2a) ☐ This action is FINAL. 2b) ⊠ This</li> <li>3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E</li> </ul>	action is non-final.  nce except for formal matters, pro	
Disposition of Claims		
4)  Claim(s) 1-27 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-27 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or  Application Papers  9)  The specification is objected to by the Examine  10)  The drawing(s) filed on is/are: a)  access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)  The oath or declaration is objected to by the Examine	wn from consideration.  r election requirement.  r.  epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to by the Edrawing(s) is objected to by the	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite

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#### **DETAILED ACTION**

Applicants' remarks filed on 4/13/07 have been acknowledged and entered.

### Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the step for cleaning lens.

#### Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claim 1 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 and 8 of copending Application No. 11/251,330. Although the conflicting claims are not identical, they are not patentably distinct from each other because the process and system in both applications are functionally equivalent. This is also because claim 1 does not include any cleaning step, therefore it reads on claims 1 and 8.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6. Claims 1-3, 8-10, 15, and 17 (1-3, 8-10 method, and 15-17 system) are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, 8, 10, 14, and 17 (1-2, 8, and 10 are method, and claims 14 and 17 are system) of copending Application No. 11/384,624. Although the conflicting claims are not identical, they are not patentably distinct from each other because the process and the system in both applications are functionally equivalent. This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Hazelton et al. (2006/0023185) in combination with Van Slyke(5,788,781) (new references).

Re. claims 1-27, Hazelton et al. teach a system of cleaning a wafer in an ILS apparatus with a cleaning liquid which has an affinity for the material absorbed on the wafer, which can be dirt and water. See the abstract, paragraphs 27, 29, 31-38 and 40, 44-51. With respect to the system (claims 15-19), see Figs. 1 and 10.

Hazelton et al. do not teach the surfactant, and means for providing surfactant, and the second fluid comprises NH4OH, and H2O2.

Van Slyke discloses a method for cleaning an oil-coated substrate.

Surfactants are known in cleaning liquids to enhance the cleaning liquids affinity for such things as dirt and water (see col. 3, lines 7-14).

It would have been obvious to one skilled in the art to add a surfactant to the Hazelton cleaning liquid to enhance the affinity of water. Furthermore, since the means for applying the surfactant reads on any applicator in the ILS. Therefore, the claimed apparatus can be any typical ILS, as surfactant application is an intended use. Re. claims 23-24, and 26, it is well known in the art to use NH4OH, H2O2, and ozone in cleaning optical element.

## Response to Arguments

9. Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection. With respect to the 112 rejections, applicants' argument is unpersuasive, because claim 1 does not recite any cleaning step for the lens. With respect to double patenting rejections, see MPEP 804, for "one-way" obviousness double patenting. With respect to Smith (2005/0270505), applicants' argument is persuasive, therefore the Smith reference has been withdrawn.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (571) 272-1301. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zeinab E. EL-Arini Primary Examiner Art Unit 1746

ZEE 6/21/07